

Title (en)
PROCESS FOR PURIFYING A GASEOUS EFFLUENT

Title (de)
VERFAHREN ZUR REINIGUNG EINES GASFÖRMIGEN ABSTROMS

Title (fr)
PROCÉDÉ D'ÉPURATION D'UN EFFLUENT GAZEUX

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Abstract (en)
[origin: WO2018091379A1] The present invention relates to a process for purifying a gaseous effluent containing at least one volatile organic compound (VOC), said process comprising at least the steps consisting in: (a) having at least one deep eutectic solvent (DES) comprising (aa) at least one compound of formula (I) $R_1R_2R_3R_4Y+X^-$; and (bb) at least one compound (II) which is a hydrogen bond donor capable of forming a complex with X^- ; and (b) bringing said deep eutectic solvent from step (a) into contact with said gaseous effluent to be purified under conditions favourable to the absorption of said VOC by said DES. The present invention also relates to the use of at least one deep eutectic solvent for absorbing at least one volatile organic compound contained in a gaseous effluent and also a composition comprising at least one volatile organic compound and at least one deep eutectic solvent.

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